## ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

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	OCUMENT NUMBER	: <u>211</u> 00-WP-OU 02.1,RC	)
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TTTLE				DATE	٠.	DCN NUMBER		
Phase II RFI/RI Work Plan (Alluvial)								
EXPIRES: 4/30/92								
LIMITATIONS: None								
Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for additional space)					
(1)	5-17	Section 5.2.2 Paragraph 2	"If a saturated subcropping sandstone greater than 3 feet in thickness" will be changed to say, "If a fluvial sandstone sequence greater than 3 feet in thickness".					
(2)	5-17	Section 5.2.2 Paragraph 2	The requirement to set surface casing and complete the borehole as a bedrock well if a 3-foot thick fluvial sandstone sequence is encountered will be changed. If a fluvial sandstone sequence having a minimum thickness of 3 feet is encountered while drilling the required six feet into bedrock, the field geologist may decide to backfill the hole and complete the well as an alluvial monitoring well. The completion requirements are dependent on the strationarchy of the overlying material and the depth to the top of the water table.  Cases A through D in the attached diagram illustrate the anticipated subcropping fluvial sandstone conditions.  Case A: A subcropping fluvial sandstone sequence is in contact with the overlying alluvium. Under this condition, the field geologist may continue drilling through the sandstone sequence until approximately 6 feet of claystone is encountered. The hole will then be backfilled and a bedrock monitoring well installed without setting surface casing. If the subcropping sandstone sequence has a saturated thickness greater than 10 feet, two bedrock monitoring wells will be installed. Screens will be set such that the upper and lower portions of the sand sequence is monitored. If the overlying alluvium is saturated, the bedrock monitoring well(s) will be offset with an alluvial monitoring well.  If the field geologist decides to complete the first hole as an alluvial monitoring well, the bedrock should not be penetrated beyond six feet. The alluvial monitoring well will be offset with a bedrock monitoring well(s) as described above.  Case B: Approximately three to five feet of claystone separate the alluvium from the fluvial sandstone sequence. Under this condition, drilling should stop at six feet into bedrock, the hole should be					
			will be offset with a bed well will be installed, un part of the year. Under If the claystone separatic complete the sandstone Case C: The top of the	rock monitoring well(s). If the sets the geologic setting indicates this condition, the installating the alluvium from the sat monitoring well as if the sar water table is within the up of the water table is within the	the sandstone is cates that the sa on of a bedrock turated bedrock adstone was in co	not saturated, the alluvial well not saturated, only the alluvial ndstone will be saturated during monitoring well may be warranted. sandstone is less than 3 feet thick, ontact with the alluvium (Case A).  bedrock. Regardless of the of the bedrock, a bedrock		
			Case D: No water in the hole. If no water is encountered within the hole after six feet of has been penetrated and no subcropping sandstone sequence has been encountered, only monitoring well will be installed. If the alluvium is too thin to allow the installation of an monitoring well, the hole may be abandoned and an alluvial monitoring well installed app feet from the original location, or an upper bedrock well may be installed. If a subcroppi sequence is present, continue drilling through the sandstone as described in Case A.  The placement of offset wells will be determined by the EG&G hydrogeologist and confir EG&G project manager.					

## ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT

DOCUMENT CHANGE NOTICE (DCN) (Continued)

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OCUMENT N	JMBER						PAGE 2 OF 2
TTTLE				DATE		DCN NUMB	ER
Phase II RF	I/RI Work Plan	(Alluvial)		1/30/92			
EXPIRES: 4/3	0/92						
LIMITATIONS	i: None						
Item Number	Page	Step or Paragraph		(Use DCN CONTINU	Changes JATION SHEET for ad	ditional space)	
channel sequen Formation depo Wentworth clas (2) The first hidecision to com necessary to set	ces may be stacked ositional model). As sification method. ole drilled should no plete as an alluvial surface casing when	together in a zone s a result, not all o ot have to be comp or bedrock well is	rather than a single cha of the rock within the be eleted as the bedrock m dependent on the strati	annel (see Phase II RF drock sandstone chan onitoring well if the be graphy encountered ar	I/RI Work Plan [Bedroon selection of the sequences will classify drock fluvial sandstone and the depth to the top communication with the	ck] for a discussion as sand according to the sequence is encoording to the sequence is encoordinated to the sequence is encoo	on of the Arapahoeing to the untered. The tion, it is not
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Subcropping Sandstones Cases Bodrock Vertical Scale Grand Surface T